

Appendix 1

Sequence Listing



SEQUENCE LISTING

5 <110> University of North Texas Health Science Center at Fort Worth
Mathews, Porunellor A.
Boles, Kent

<120> Immuno activation of CS1 receptor in natural killer cells to
inhibit tumor cell growth

10 <130> 120746.00004

<140> 10/021,741
<141> 2001-12-12

15 <160> 5

<170> PatentIn version 3.1

20 <210> 1
<211> 1083
<212> DNA
<213> Homo Sapiens

25 <300>
<301> Boles, K.S. and Mathew, P.A.
<302> Molecular cloning of CS1, a novel human natural killer cell
<303> Immunogenetics
<304> 52
<305> (3-4)

30 <306> 302-307
<307> 2001
<308> AF291815
<309> 2000-08-01
<313> (1)..(1083)

35 <300>
<308> AF291815
<309> 2000-08-01
<313> (1)..(1083)

40 <400> 1
cagagagcaa tatggctggt tccccaacat gcctcaccct catctatatc ctttggcagc
60

45 tcacaggggc agcagcctct ggacccgtga aagagctggt cggttccggt ggtggggccg
120

tgactttccc cctgaagtcc aaagtaaagc aagttgactc tattgtctgg accttcaaca
180

50 caaccctct tgtcaccata cagccagaag ggggcactat catagtgacc caaaatcgta
240

atagggagag agtagacttc ccagatggag gctactccct gaagctcagc aaactgaaga
300

agaatgactc agggatctac tatgtgggga tatacagctc atcaactcag cagccctcca
360

60 cccaggagta cgtgctgcat gtctacgagc acctgtcaaa gcctaaagtc accatggggtc
420

tgcagagcaa taagaatggc acctgtgtga ccaatctgac atgctgcatg gaacatgggg
480

aagaggatgt gatttatacc tggaaggccc tggggcaagc agccaatgag tcccataatg
540
5 ggtccatcct ccccatctcc tggagatggg gagaaagtga tatgaccttc atctgcgttg
600
ccaggaaccc tgtcagcaga aactttctcaa gccccatcct tgccaggaag ctctgtgaag
660
10 gtgctgctga tgaccagat tcctccatgg tcctcctgtg tctcctgttg gtgccccctcc
720
tgctcagtct ctttgtactg gggctatttc tttggtttct gaagagagag agacaagaag
15 780
agtacattga agagaagaag agagtggaca tttgtcggga aactcctaac atatgcccc
840
20 attctggaga gaacacagag tacgacacaa tccctcacac taatagaaca atcctaaagg
900
aagatccagc aaatacgggt tactccactg tggaaatacc gaaaaagatg gaaaatcccc
960
25 actcactgct cacgatgcca gacacaccaa ggctatttgc ctatgagaat gttatctaga
1020
cagcagtgca ctgcccctaa gtctctgctc aaaaaaaaaa caattctcgg cccaaagaaa
30 1080
aca
1083
35
<210> 2
<211> 335
<212> PRT
<213> Homo Sapiens
40
<300>
<301> Boles, K.S. and Mathew, P.A.
<302> Molecular cloning of CS1, a novel human natural killer cell
<303> Immunogenetics
45 <304> 52
<305> (3-4)
<306> 302-307
<307> 2001
<308> AAK11549
50 <309> 2001-08-01
<313> (1) .. (335)
<300>
<308> AAK11549
55 <309> 2001-08-01
<313> (1) .. (335)
<400> 2
60 Met Ala Gly Ser Pro Thr Cys Leu Thr Leu Ile Tyr Ile Leu Trp Gln
1 5 10 15

Leu Thr Gly Ser Ala Ala Ser Gly Pro Val Lys Glu Leu Val Gly Ser

	20	25	30
5	Val Gly Gly Ala Val Thr Phe Pro Leu Lys Ser Lys Val Lys Gln Val	35 40	45
10	Asp Ser Ile Val Trp Thr Phe Asn Thr Thr Pro Leu Val Thr Ile Gln	50 55	60
15	Pro Glu Gly Gly Thr Ile Ile Val Thr Gln Asn Arg Asn Arg Glu Arg	65 70	75 80
20	Val Asp Phe Pro Asp Gly Gly Tyr Ser Leu Lys Leu Ser Lys Leu Lys	85	90 95
25	Lys Asn Asp Ser Gly Ile Tyr Tyr Val Gly Ile Tyr Ser Ser Ser Leu	100	105 110
30	Gln Gln Pro Ser Thr Gln Glu Tyr Val Leu His Val Tyr Glu His Leu	115	120 125
35	Ser Lys Pro Lys Val Thr Met Gly Leu Gln Ser Asn Lys Asn Gly Thr	130	135 140
40	Cys Val Thr Asn Leu Thr Cys Cys Met Glu His Gly Glu Glu Asp Val	145	150 155 160
45	Ile Tyr Thr Trp Lys Ala Leu Gly Gln Ala Ala Asn Glu Ser His Asn	165	170 175
50	Gly Ser Ile Leu Pro Ile Ser Trp Arg Trp Gly Glu Ser Asp Met Thr	180	185 190
55	Phe Ile Cys Val Ala Arg Asn Pro Val Ser Arg Asn Phe Ser Ser Pro	195	200 205
60	Ile Leu Ala Arg Lys Leu Cys Glu Gly Ala Ala Asp Asp Pro Asp Ser	210	215 220
65	Ser Met Val Leu Leu Cys Leu Leu Leu Val Pro Leu Leu Leu Ser Leu	225	230 235 240
70	Phe Val Leu Gly Leu Phe Leu Trp Phe Leu Lys Arg Glu Arg Gln Glu	245	250 255
75	Glu Tyr Ile Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu Thr Pro	260	265 270
80	Asn Ile Cys Pro His Ser Gly Glu Asn Thr Glu Tyr Asp Thr Ile Pro		

275

280

285

5 His Thr Asn Arg Thr Ile Leu Lys Glu Asp Pro Ala Asn Thr Val Tyr
290 295 300

10 Ser Thr Val Glu Ile Pro Lys Lys Met Glu Asn Pro His Ser Leu Leu
305 310 315 320

Thr Met Pro Asp Thr Pro Arg Leu Phe Ala Tyr Glu Asn Val Ile
325 330 335

15

<210> 3
<211> 12
<212> PRT
<213> artificial sequence

20

<220>
<223> Peptide fragment of mAb for CS1 receptor.

<400> 3

25

Cys Gln Asn Arg Asn Arg Glu Arg Val Asp Phe Pro
1 5 10

30

<210> 4
<211> 11
<212> PRT
<213> artificial sequence

35

<220>
<223> Peptide fragment of mAb for CS1 receptor.

<400> 4

40

Cys Met Glu His Gly Glu Glu Asp Val Ile Tyr
1 5 10

45

<210> 5
<211> 16
<212> PRT
<213> artificial sequence

50

<220>
<223> Peptide fragment of mAb for CS1 receptor.

<400> 5

55

Cys Gln Glu Glu Tyr Glu Glu Lys Lys Arg Val Asp Ile Cys Arg Glu
1 5 10 15